

Figure 1

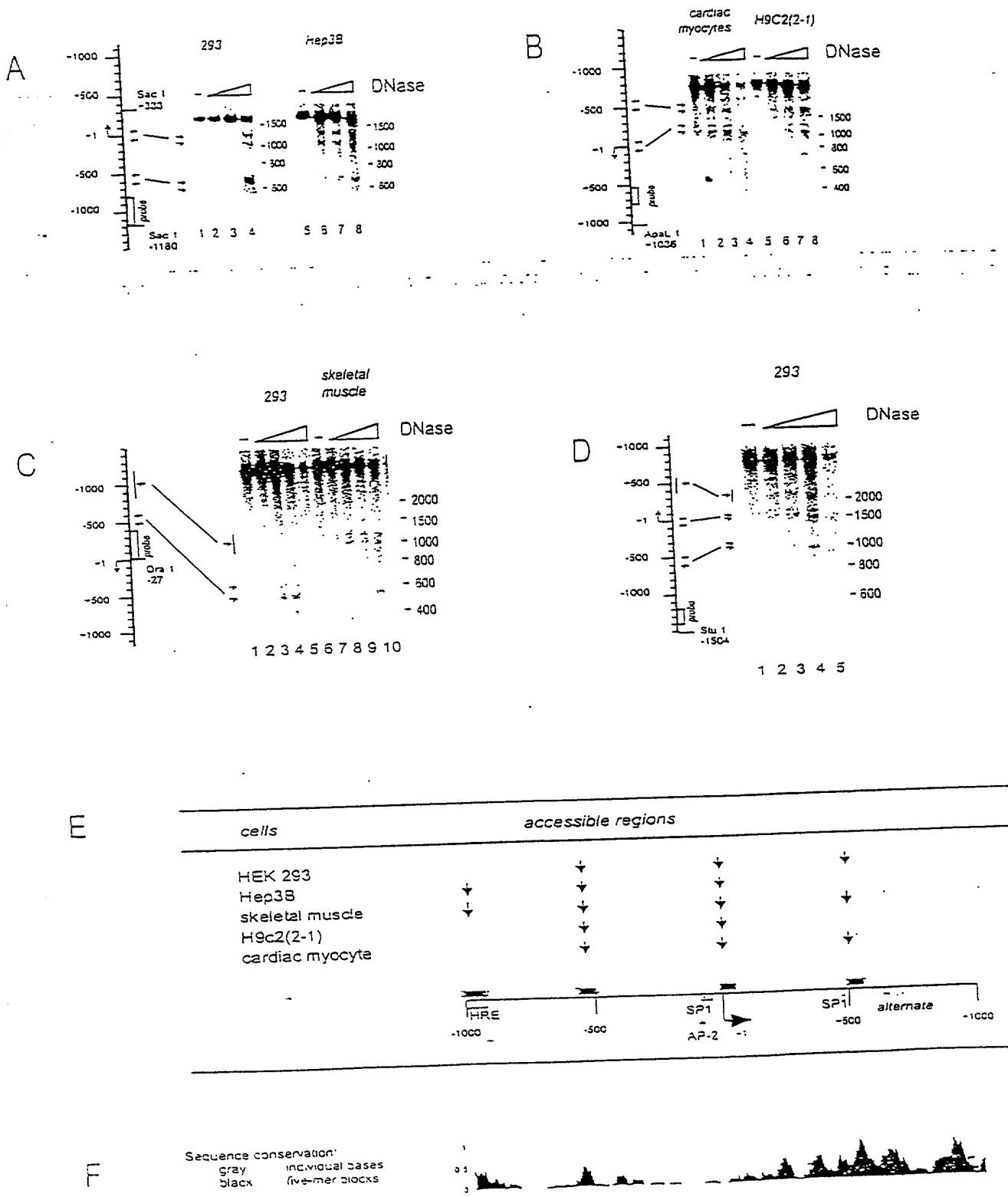


Figure 2

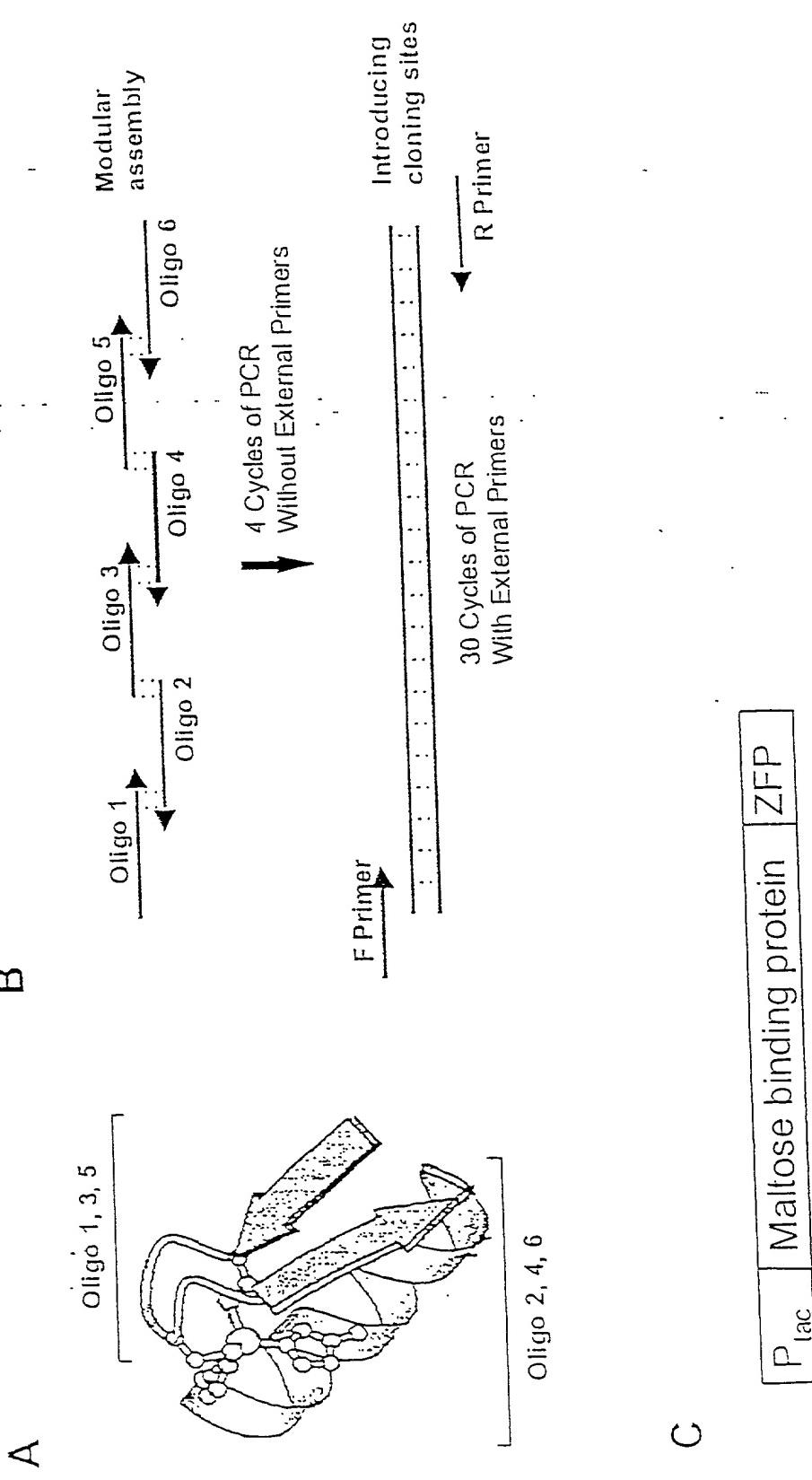


Figure 2

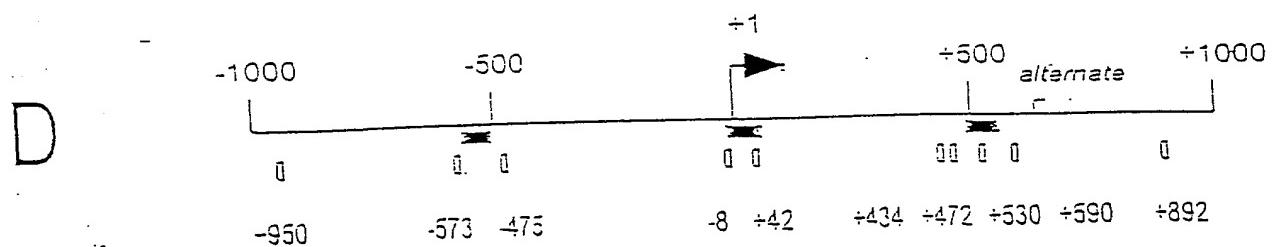
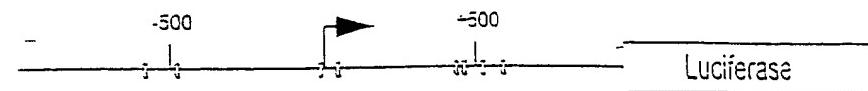


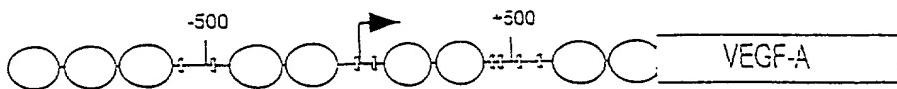
Figure 3

A

Reporter



Endogenous
VEGF-A



ZFPs

VZ-573
VZ-475
VZ-8
VZ+434
VZ+590
VZ+472

VZ+42/530

B

Fold Reporter Activation

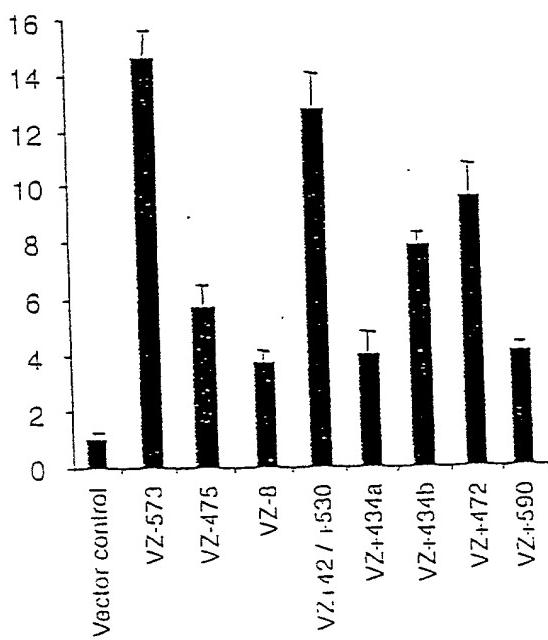
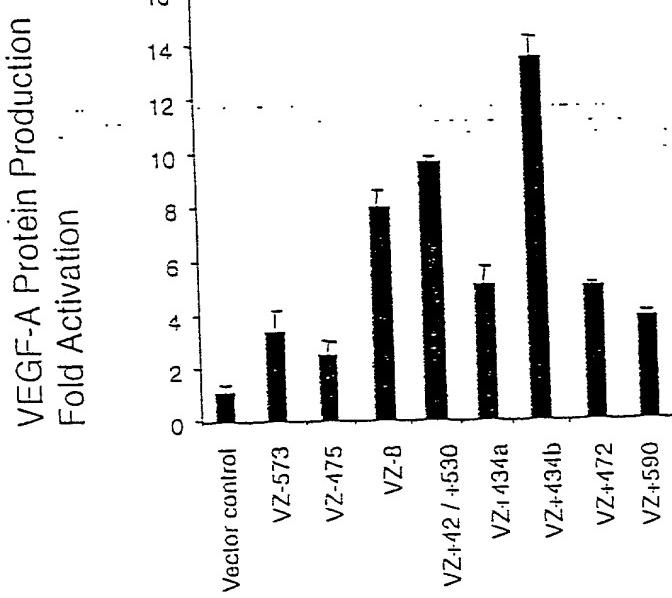


Figure 3

C



D

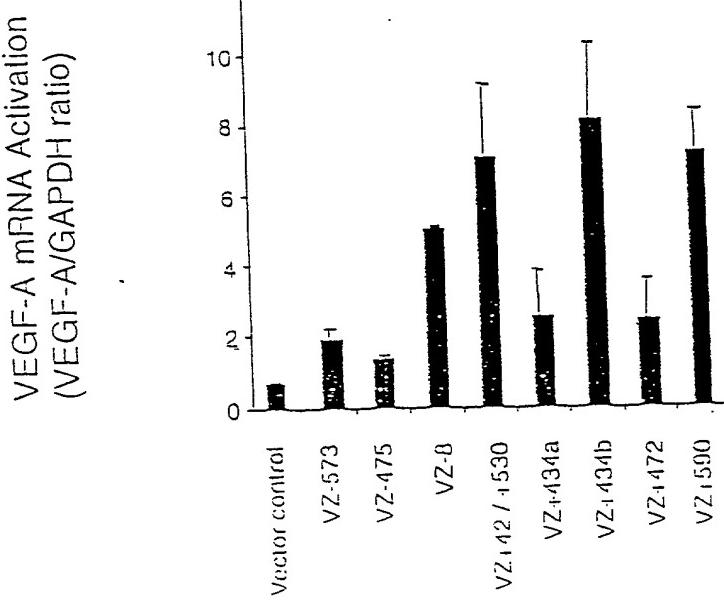


Figure 3

Relative ZFP mRNA levels
(VP16 / GAPDH by Taqman)

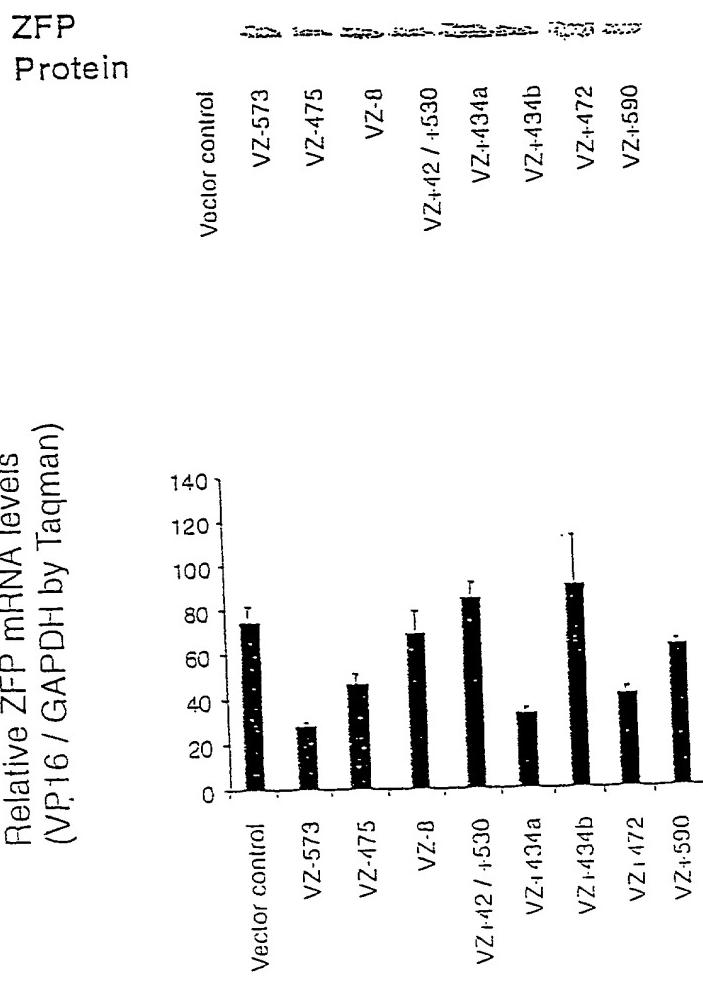


Figure 4

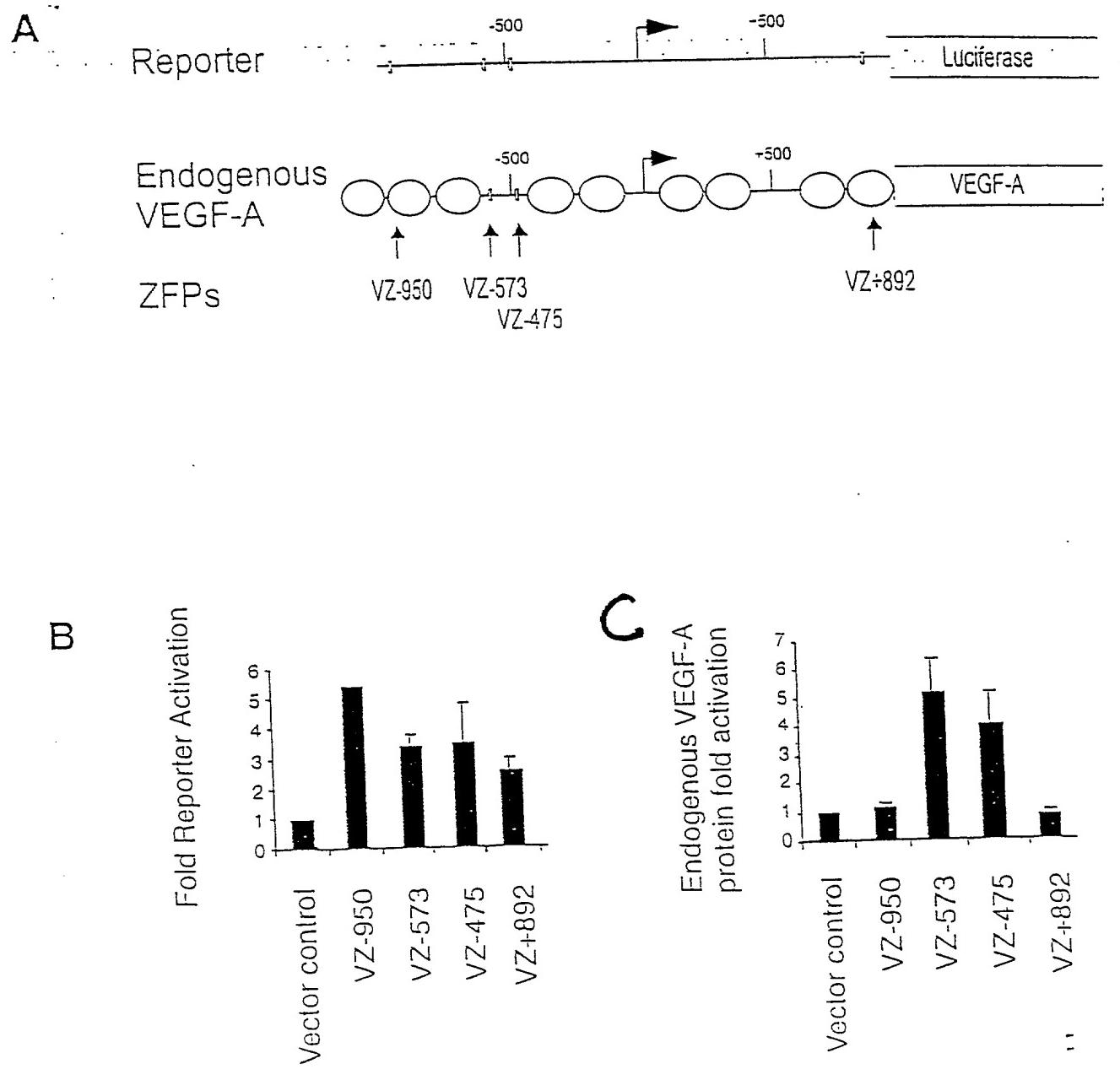


Figure 5

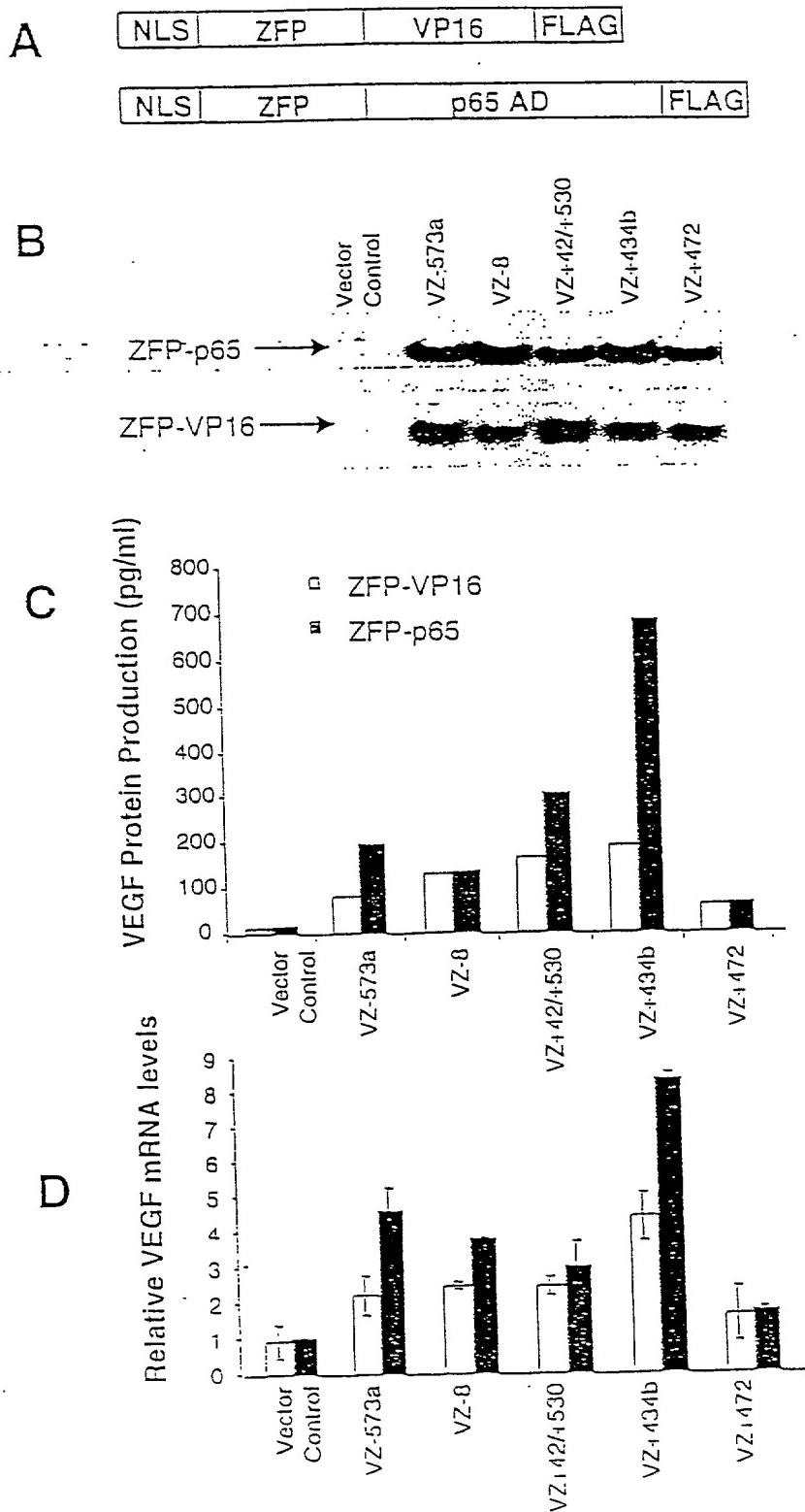


Figure 6

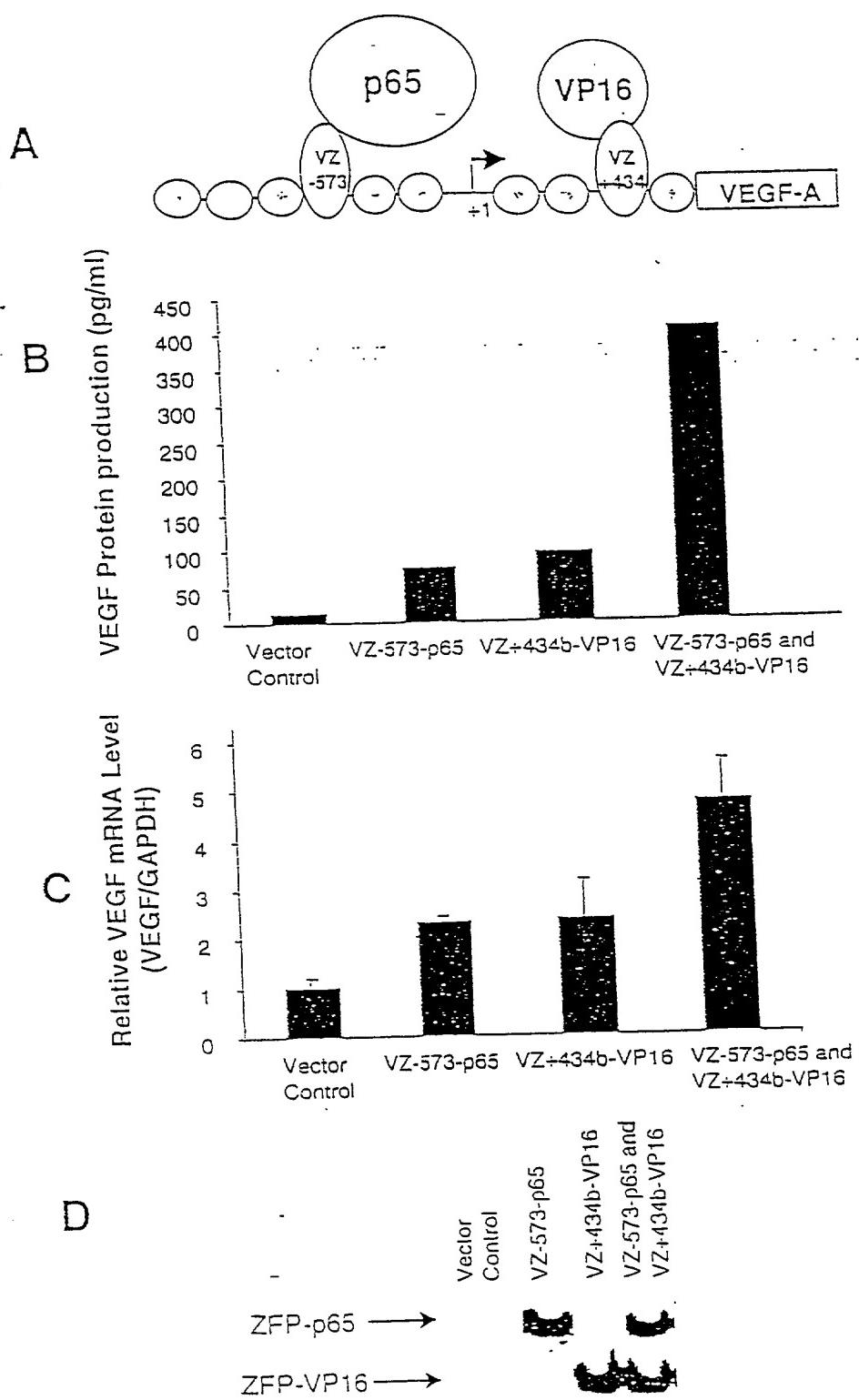


Figure 7

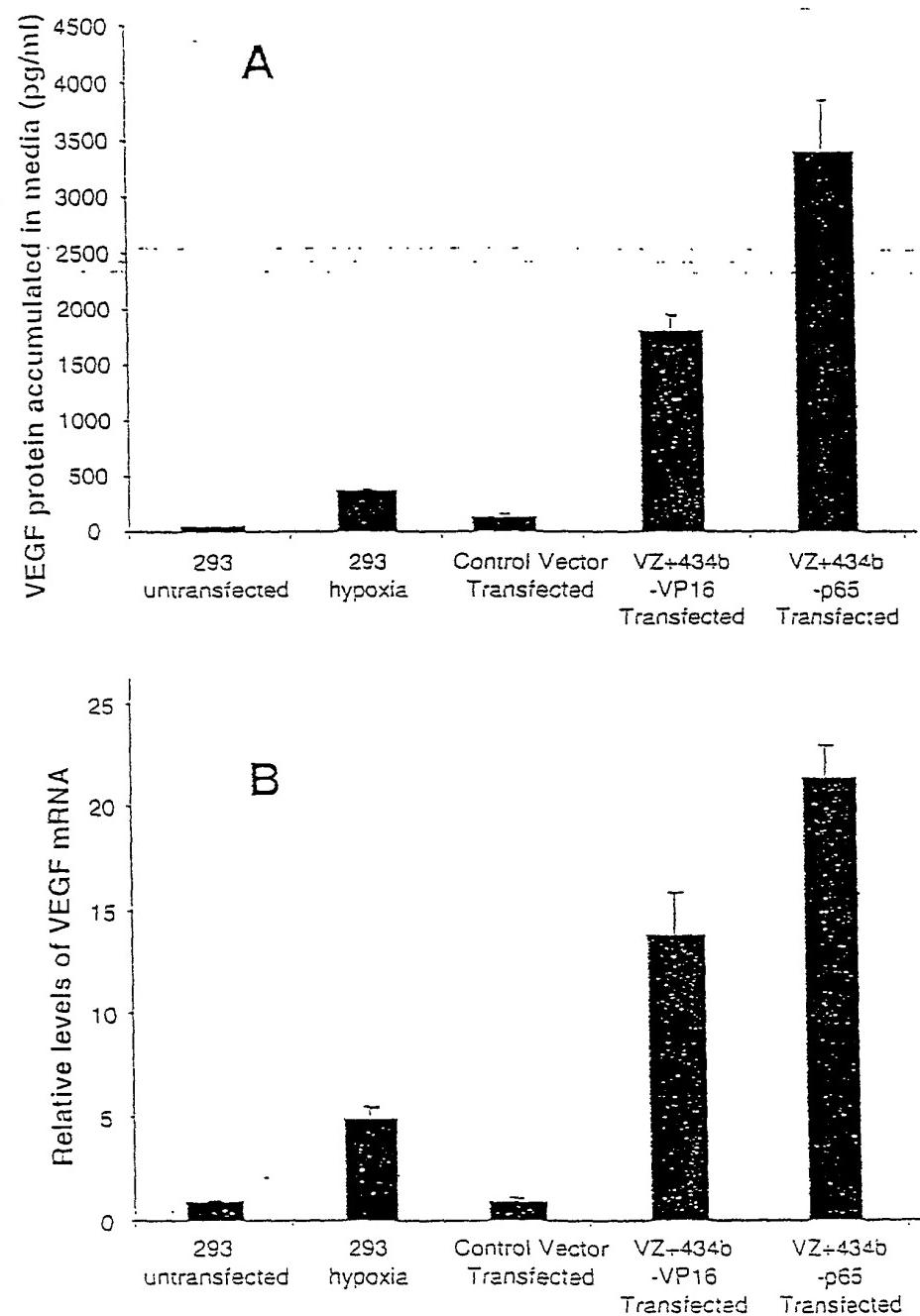
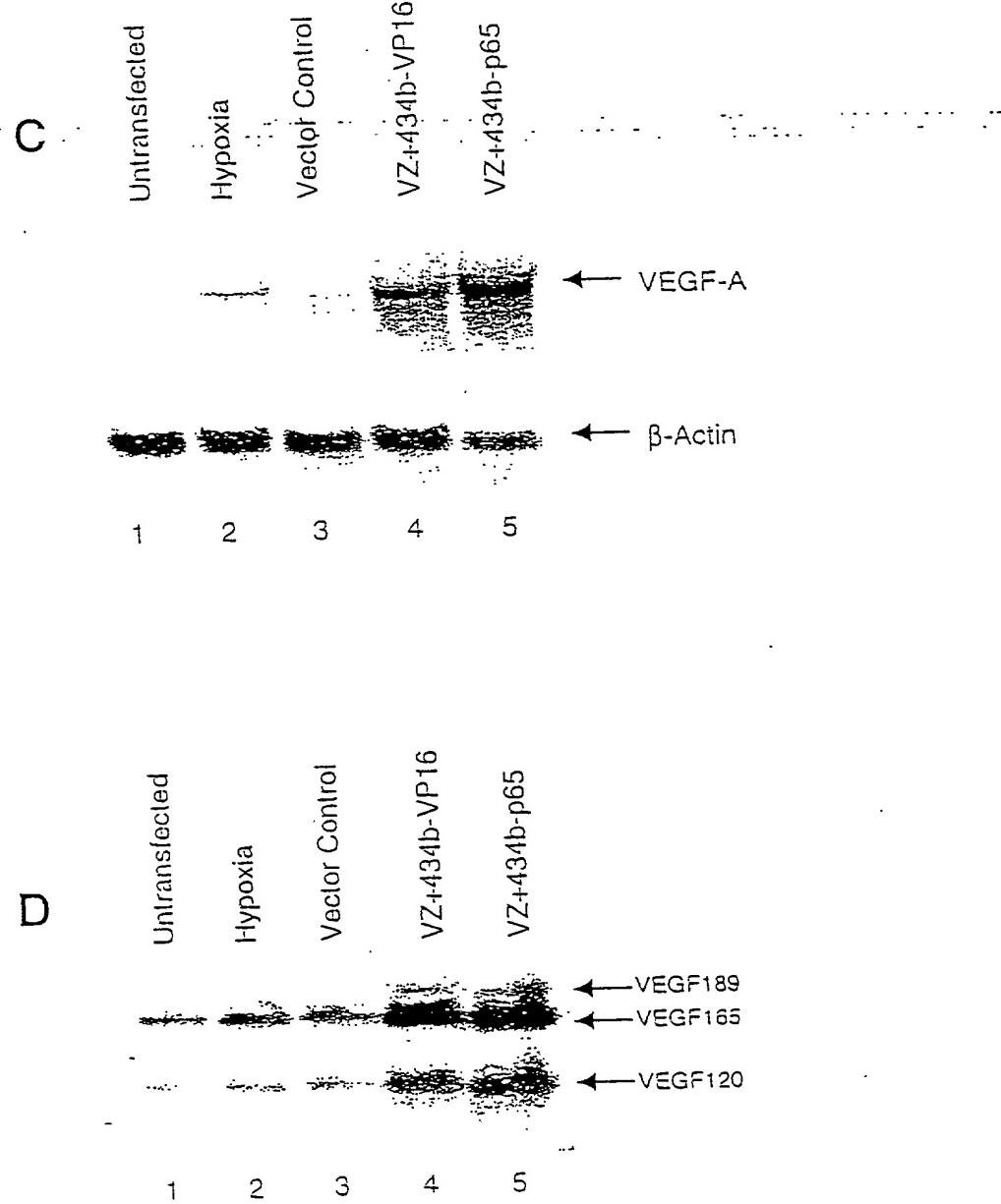


Figure 7



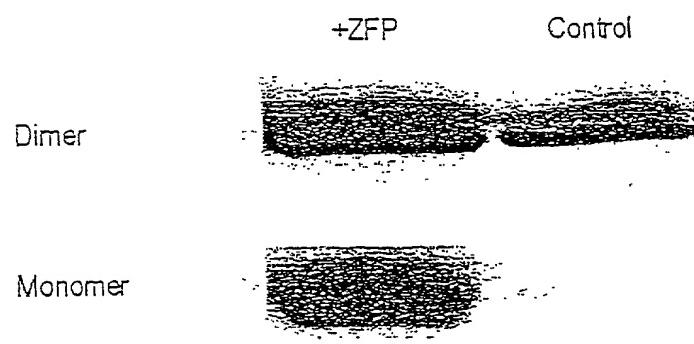


FIG. 8

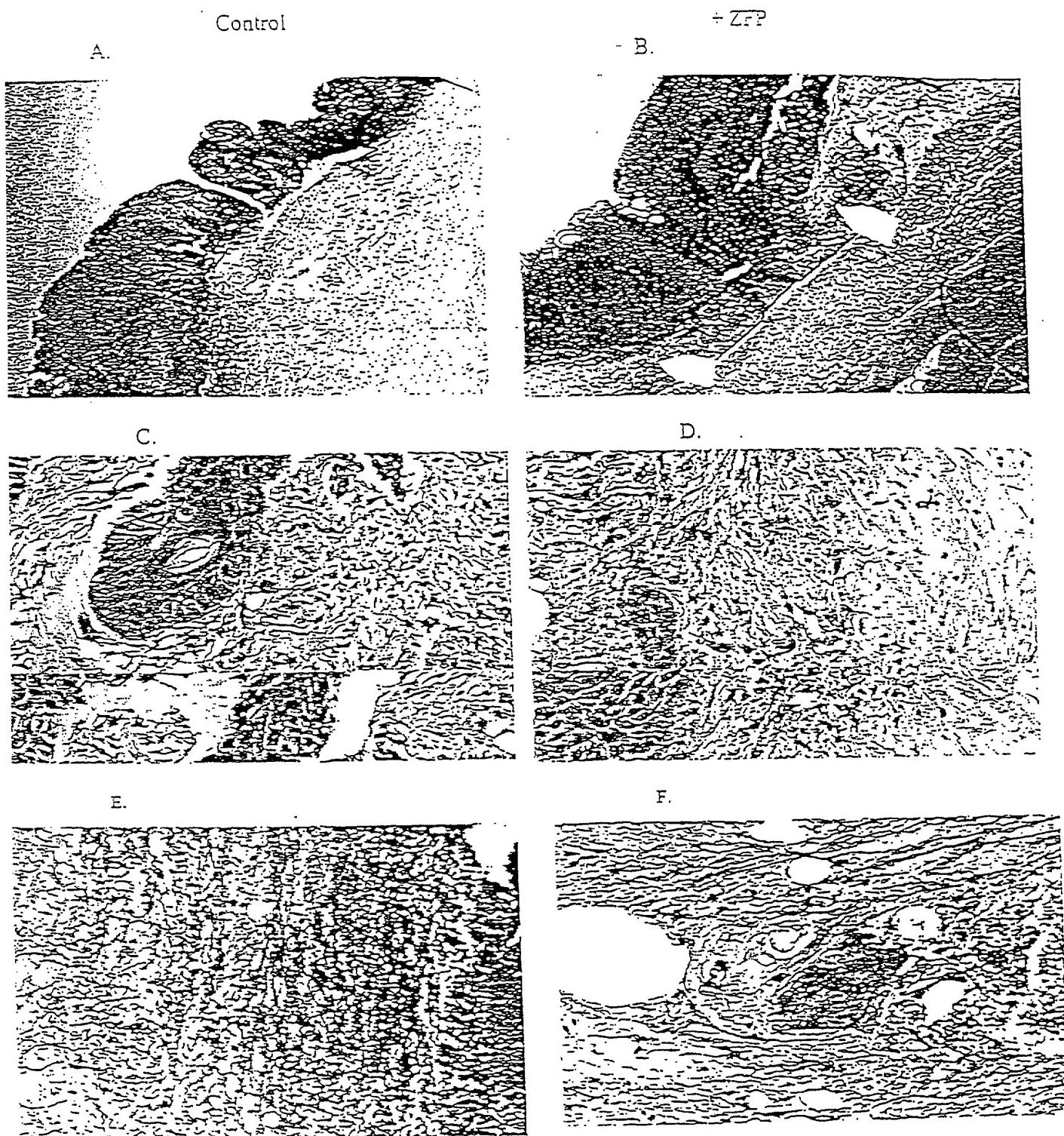


FIG. 9

1.000666 g in 1.00666 ml

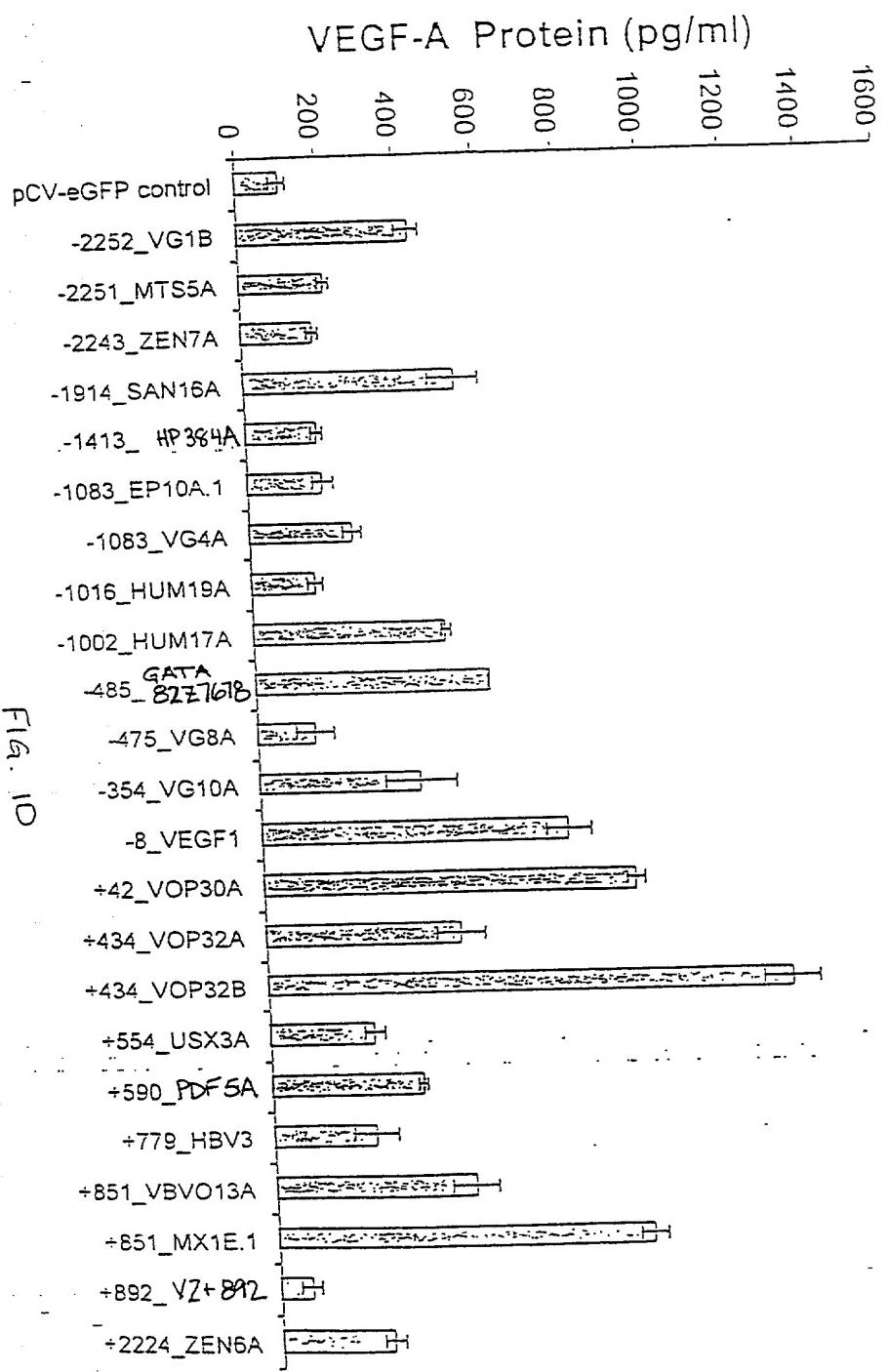


FIG. 10

ZFP →

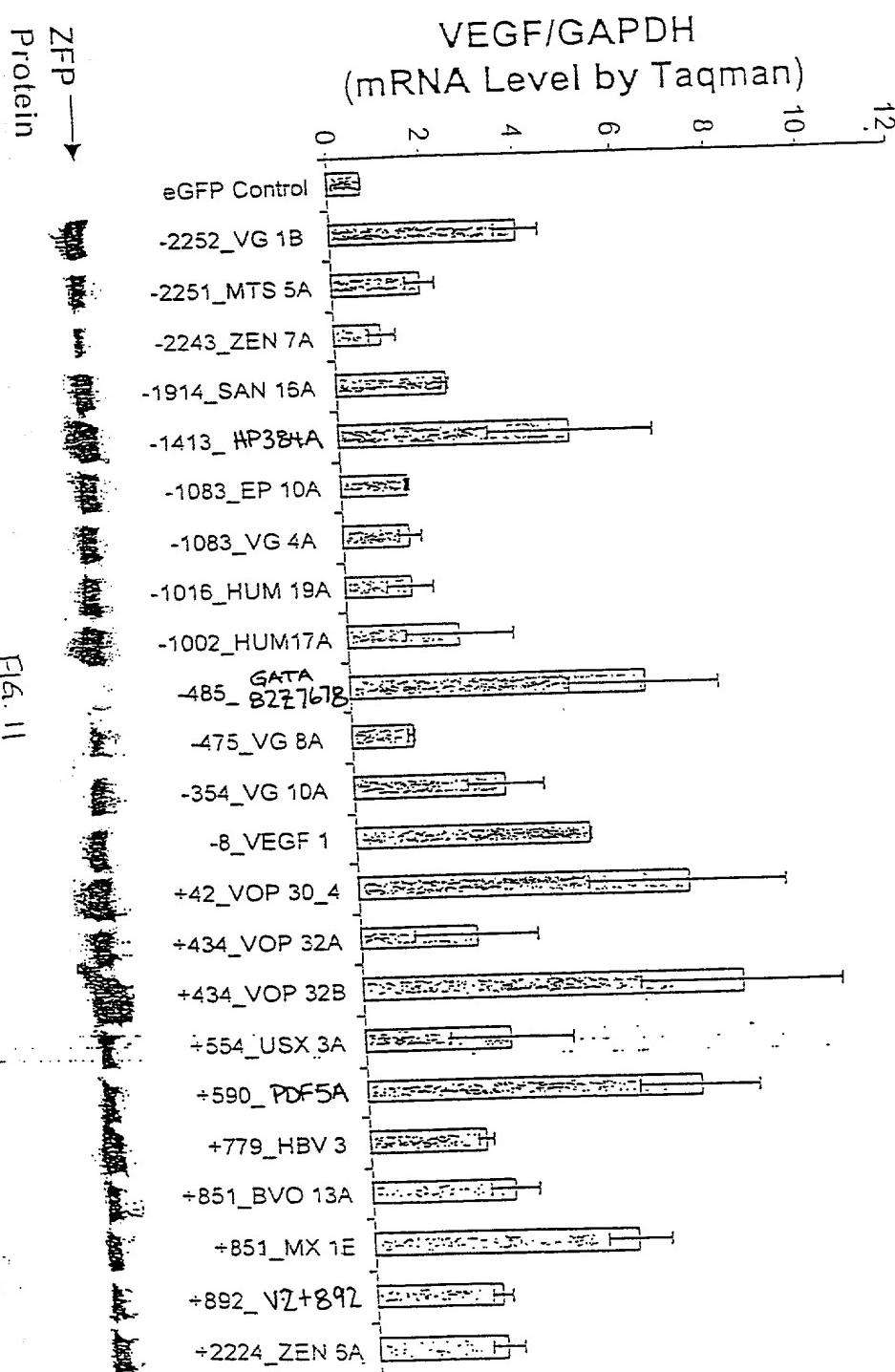


Fig. 11

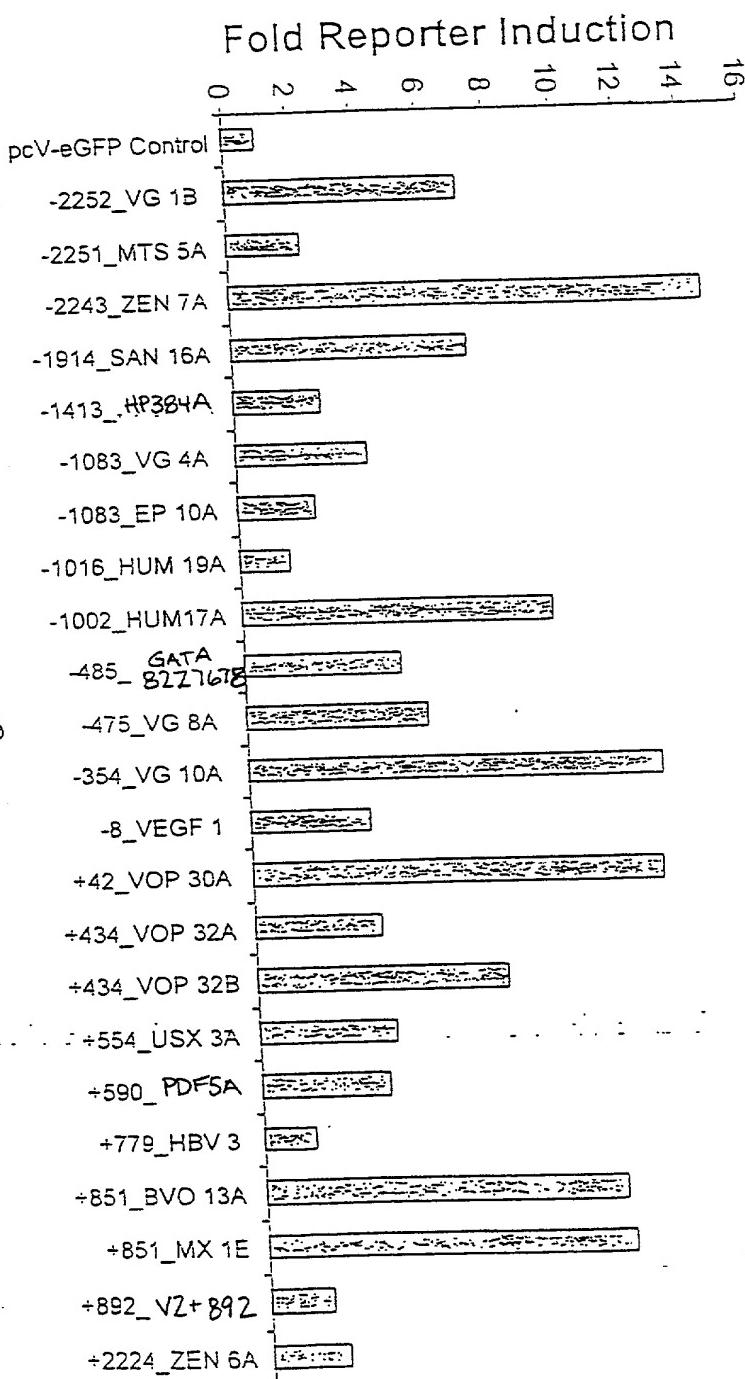


FIG. 12

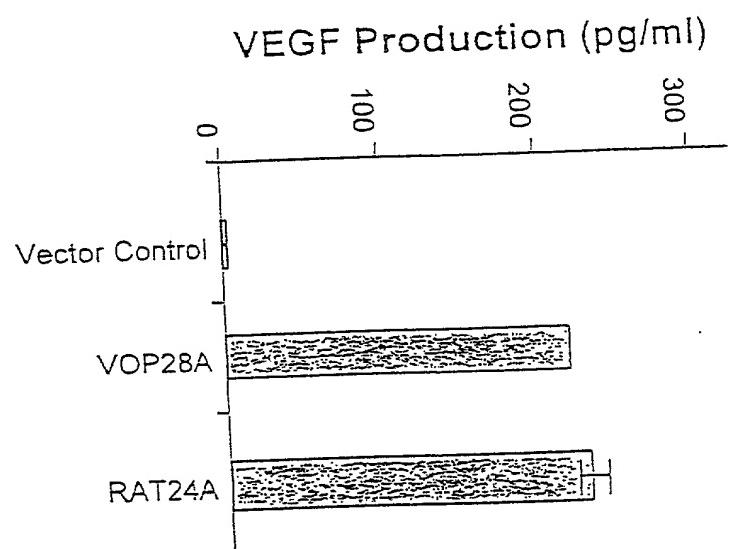


FIG. 13

Figure 14

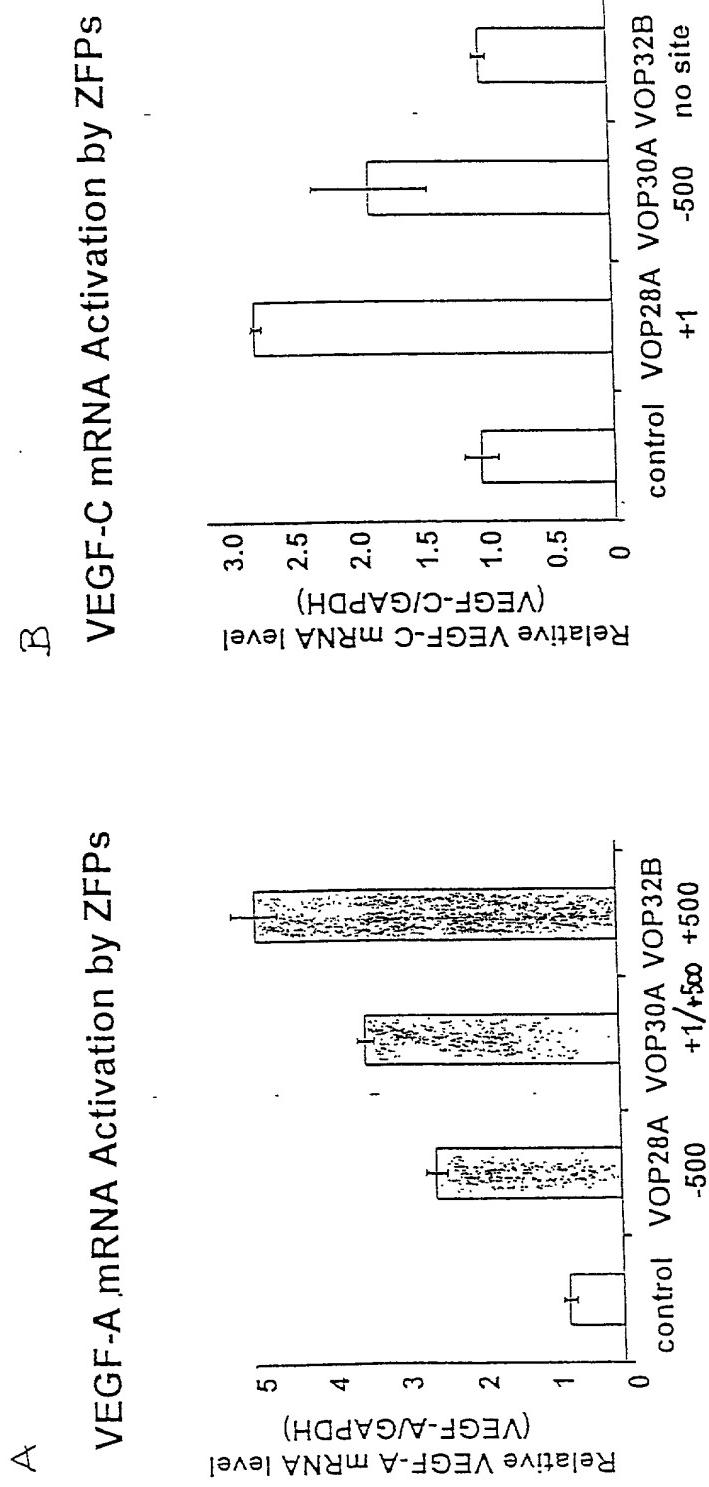
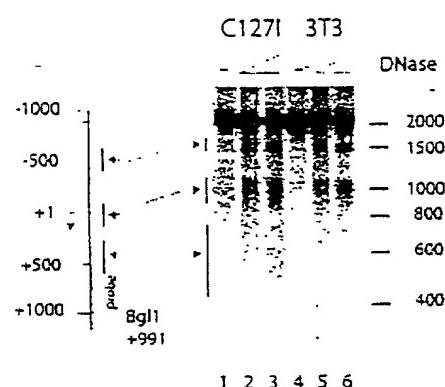
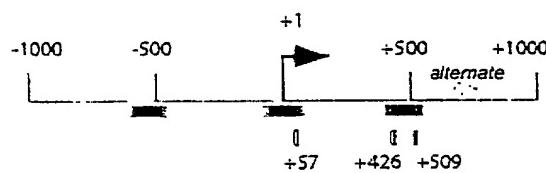


Figure 15

A



B



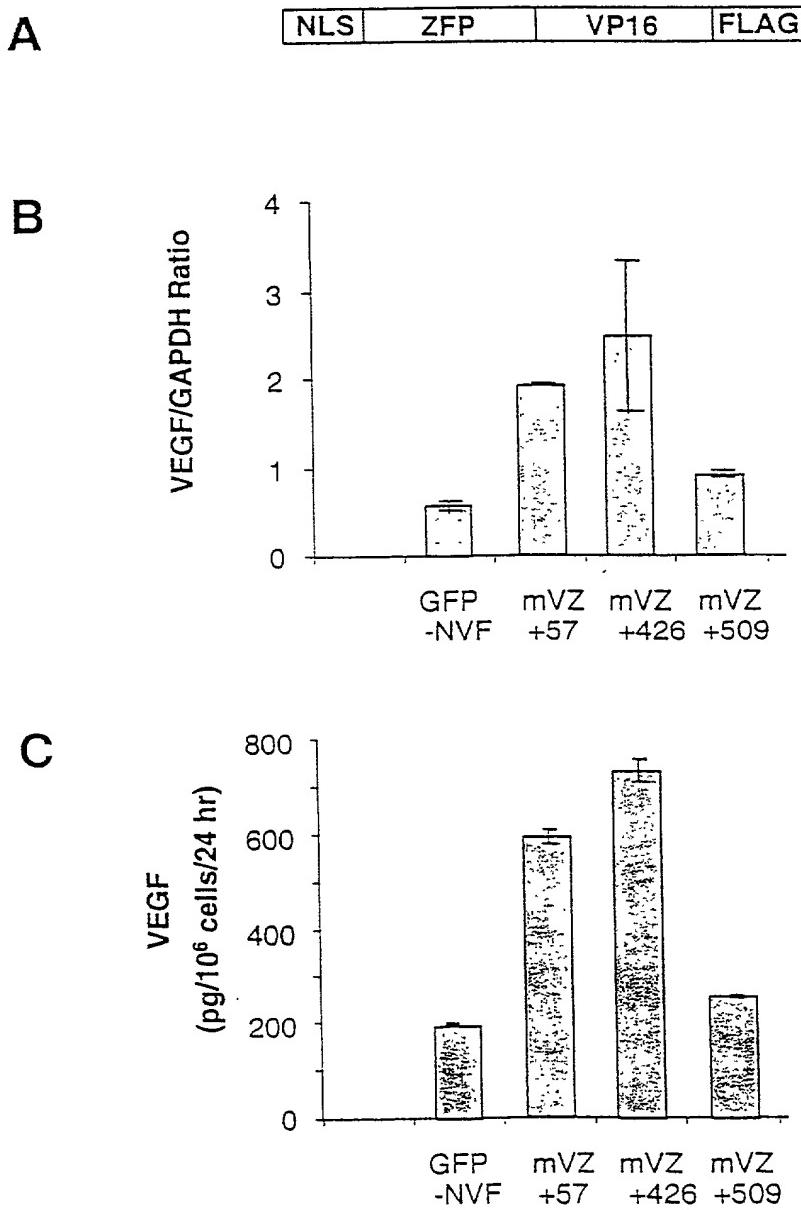
C

| ZFP Name | Target | | Finger Designs |
|----------|----------------------|--|---|
| | Sequence 5' - 3' | Subsites 5' - 3' | |
| mVZ+57 | TGAGCGGGCGGCAGCGGAGc | GCAg GCCg GCCg GCAg GCCg GAGc | QSGHLTK F6 RSDELSA F5 RSDELTR F4 QSGSLTR2 F3 RSDELQR2 F2 RSCNILAR F1 |
| mVZ+426 | GGGGGTGACc | GGGg GGTg GACc | RSCHL8R F3 TSCHLVR F2 DRSNLT2 F1 |
| mVZ+509 | GCTGGGGGCGg | GCTg GGGg GGCg | QSSDLTR F3 RSDELTR F2 DRSHLTR F1 |

D

| ZFP | Target | Gel Shift | Apparent Kd (nM) |
|---------|----------------------|---------------|------------------|
| mVZ+57 | TGAGCGGGCGGCAGCGGAGc | Bound Free | 0.031 |
| mVZ+426 | GGGGGTGACc | Bound Free | <0.01 |
| mVZ+509 | GCTGGGGGCGg | Bound Free | <0.01 |
| SP1 | GGGGCGGGGg | Bound Free | 0.053 |

Figure 16



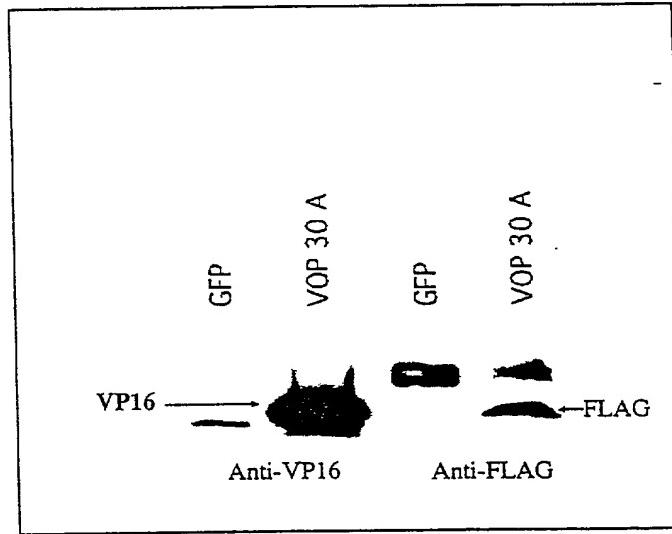


FIG. 17A

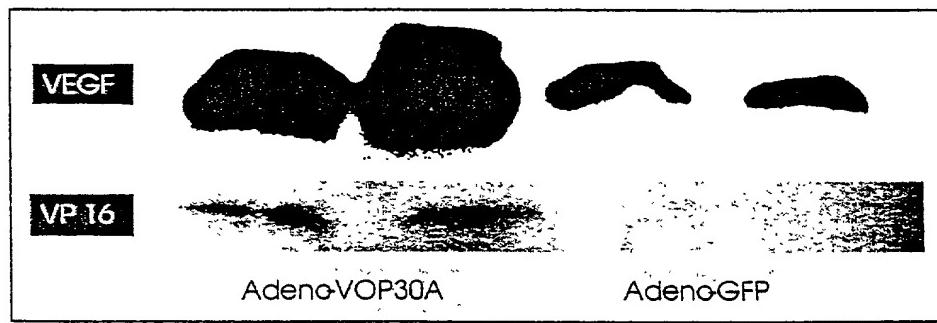


FIG. 17B

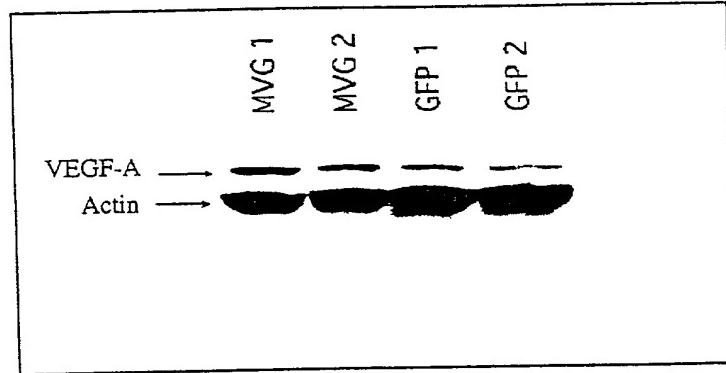


FIG. 17C

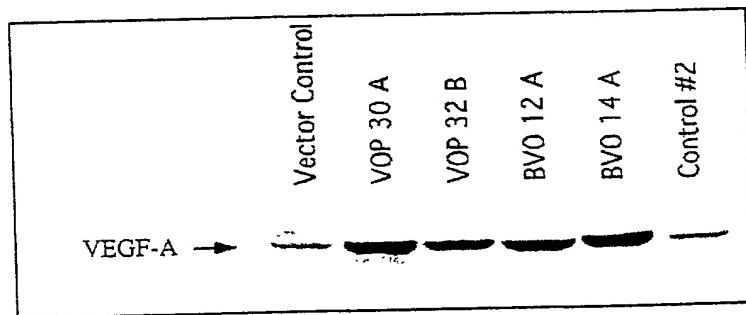


FIG. 17D

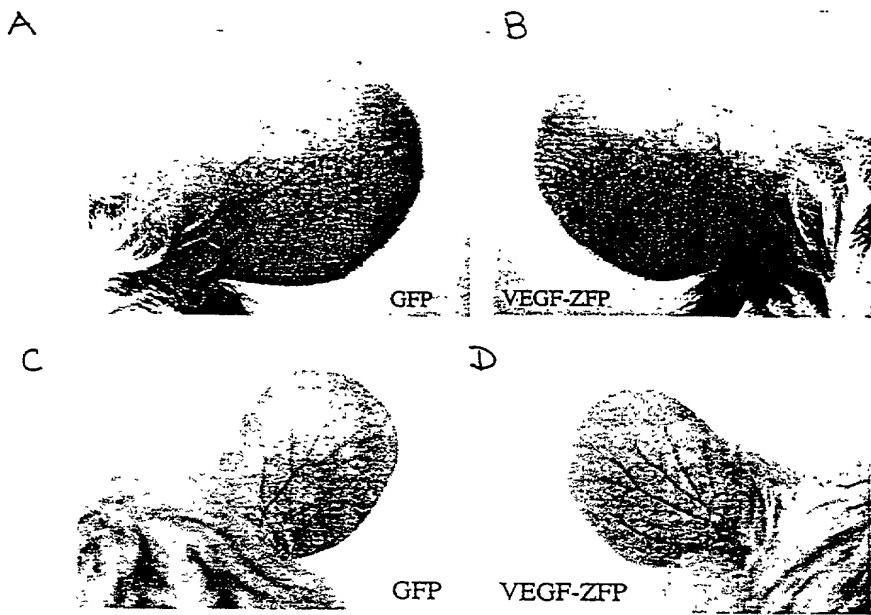


FIG. 18

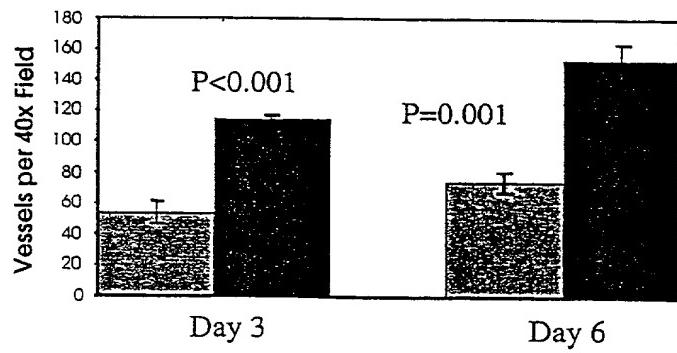


FIG. 18 E

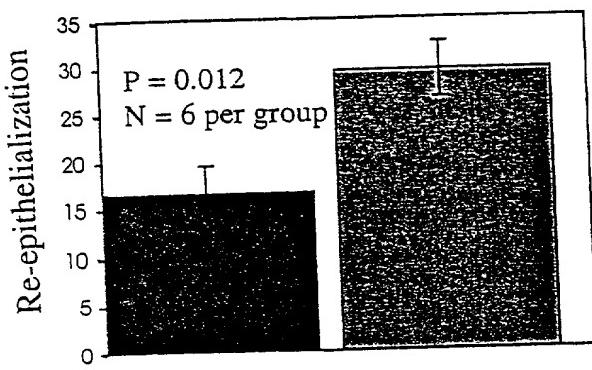
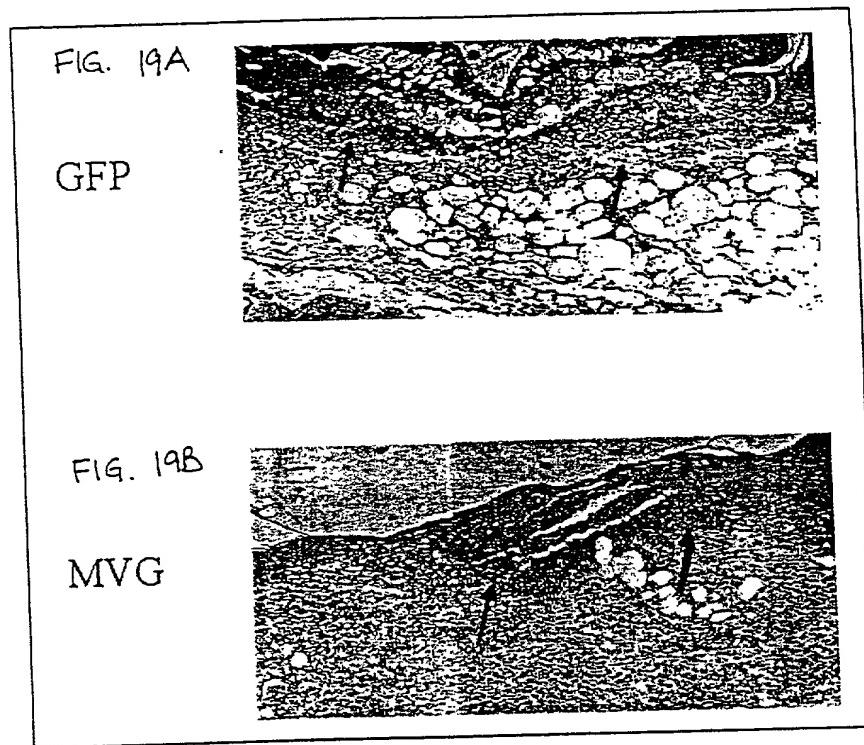
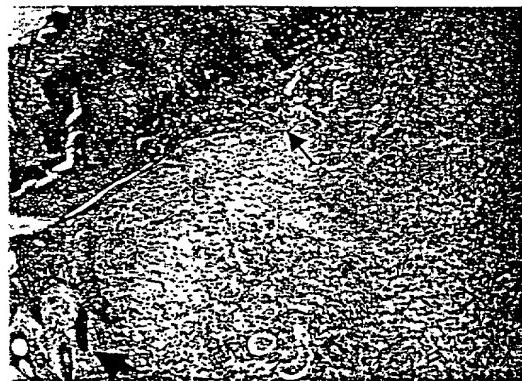


FIG. 19C



VEGF-ZFP (MVG)
MVG

FIG. 20A



GFP Control

FIG. 20B

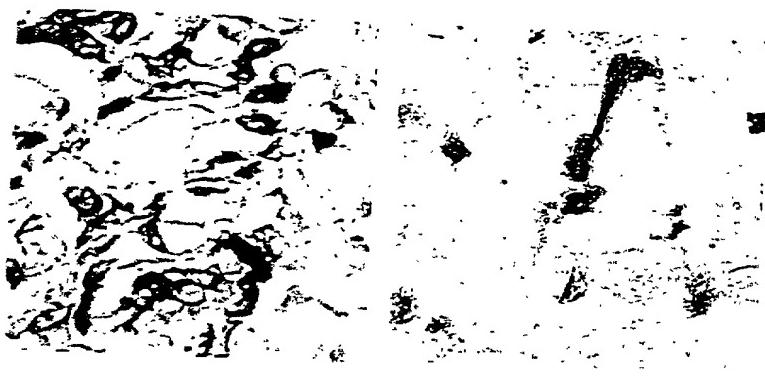


FIG. 21 A

FIG. 21 B

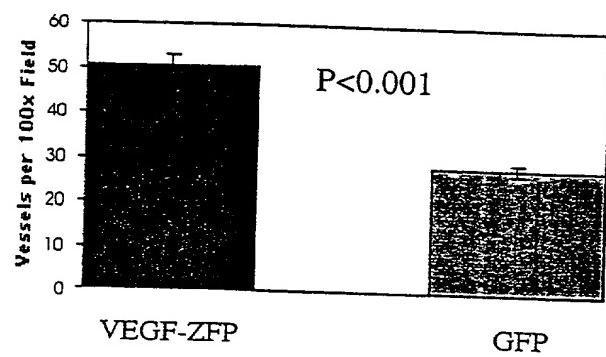


FIG. 21 C

Figure 22

